Amendments to the Claims

Kindly cancel claims 2-4, 11-13, 19 and 21-23, without prejudice, and amend claims 1, 5-7, 10, 14-18, 20 and 24-28, as set forth below. The changes in the amended claims are shown by strikethrough for deleted matter and underlining for added matter.

1. (Currently Amended) A method of facilitating allocation of resources in a heterogeneous computing environment, said method comprising:

~~obtaining, by a resource manager of the heterogeneous computing environment, one or more attributes relating to one or more nodes coupled to the resource manager, said one or more attributes specifying at least one compatible environment supported by the one or more nodes; and~~

~~taking into consideration, by the resource manager, at least one attribute of the one or more attributes in allocating one or more resources of at least one node of the one or more nodes to a request.~~

obtaining, by a resource manager executing on a processor of the heterogeneous computing environment, one or more attributes relating to a node coupled to the resource manager, wherein said node is of the heterogeneous computing environment and is of a native architecture, and wherein the one or more attributes specify one or more non-native architectures supported by the node, said one or more non-native architectures being different than said native architecture;

determining by the resource manager whether the node supports an architecture capable of executing a specific request, wherein the specific request specifies the architecture for the specific request that is different from the native architecture of the node; and

allocating one or more resources of the node to the specific request, in response to the determining indicating the node supports the architecture of the request.

2. (Canceled)

3. (Canceled)

4. (Canceled)

5. (Currently Amended) The method of claim [[4]]1, wherein the specific request comprises a program to be executed.

6. (Currently Amended) The method of claim 1, wherein the obtaining comprises providing by the ~~one or more nodes~~ node the one or more attributes to the resource manager.

7. (Currently Amended) The method of claim 6, wherein the providing of the one or more attributes by the ~~one or more nodes~~ node to the resource manager is via one or more other resource managers coupled to the ~~one or more nodes~~node.

8. (Original) The method of claim 7, wherein the resource manager is a grid resource manager, and the one or more other resource managers comprise one or more cluster resource managers.

9. (Original) The method of claim 1, wherein the heterogeneous computing environment comprises a grid computing environment and said resource manager comprises a grid resource manager.

10. (Currently Amended) A computer system ~~of~~ for facilitating allocation of resources in a heterogeneous computing environment, ~~said~~ the computer system comprising:

a memory; and

a processor in communications with the memory, wherein the computer system is capable of performing a method, said method comprising:

~~means for obtaining, by a resource manager of the heterogeneous computing environment, one or more attributes relating to one or more nodes coupled to the resource manager, said one or more attributes specifying at least one compatible environment supported by the one or more nodes; and~~

~~means for taking into consideration, by the resource manager, at least one attribute of the one or more attributes in allocating one or more resources of at least one node of the one or more nodes to a request.~~

obtaining, by a resource manager of the heterogeneous computing environment, one or more attributes relating to a node coupled to the resource manager, wherein said node is of the heterogeneous computing environment and is of a native architecture, and wherein the one or more attributes specify one or more non-native architectures supported by the node, said one or more non-native architectures being different than said native architecture;

determining by the resource manager whether the node supports an architecture capable of executing a specific request, wherein the specific request specifies the architecture for the specific request that is different from the native architecture of the node; and

allocating one or more resources of the node to the specific request, in response to the determining indicating the node supports the architecture of the request.

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Currently Amended) The computer system of claim ~~13~~10, wherein the specific request comprises a program to be executed.

15. (Currently Amended) The computer system of claim 10, wherein the ~~means for~~ obtaining comprises ~~means for~~ providing by the ~~one or more nodes~~node the one or more attributes to the resource manager.

16. (Currently Amended) The computer system of claim 15, wherein the ~~means for~~ providing of the one or more attributes by the ~~one or more nodes~~node to the resource manager is via one or more other resource managers coupled to the ~~one or more nodes~~node.

17. (Currently Amended) The computer system of claim 16, wherein the resource manager is a grid resource manager, and the one or more other resource managers comprise one or more cluster resource managers.

18. (Currently Amended) The computer system of claim 10, wherein the heterogeneous computing environment comprises a grid computing environment and said resource manager comprises a grid resource manager.

19. (Canceled)

20. (Currently Amended) A computer program product for facilitating allocation of resources in a heterogeneous computing environment, the computer program product comprising:

a storage medium readable by a processor and storing instructions for execution by the processor for performing a method comprising:

obtaining, by a resource manager of the heterogeneous computing environment, one or more attributes relating to a node coupled to the resource manager, wherein said node is of the heterogeneous computing environment and is of a native architecture, and wherein the one or more attributes specify one or more non-native architectures supported by the node, said one or more non-native architectures being different than said native architecture;

determining by the resource manager whether the node supports an architecture capable of executing a specific request, wherein the specific request specifies the architecture for the specific request that is different from the native architecture of the node; and

allocating one or more resources of the node to the specific request, in response to the determining indicating the node supports the architecture of the request.

~~An article of manufacture comprising:~~

~~at least one computer usable medium having computer readable program code logic to facilitate allocation of resources in a heterogeneous computing environment, the computer readable program code logic comprising:~~

~~obtain logic to obtain, by a resource manager of the heterogeneous computing environment, one or more attributes relating to one or more nodes coupled to the resource manager, said one or more attributes specifying at least one compatible environment supported by the one or more nodes; and~~

~~consideration logic to take into consideration, by the resource manager, at least one attribute of the one or more attributes in allocating one or more resources of at least one node of the one or more nodes to a request.~~

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Currently Amended) The ~~article of manufacture~~ computer program product of claim ~~23~~20, wherein the specific request comprises a program to be executed.

25. (Currently Amended) The ~~article of manufacture~~computer program product of claim 20, wherein the ~~obtain logic~~obtaining comprises ~~provide logic to provide~~providing by the ~~one or more nodes~~node the one or more attributes to the resource manager.

26. (Currently Amended) The ~~article of manufacture~~computer program product of claim 25, wherein the providing of the one or more attributes by the ~~one or more nodes~~node to the resource manager is via one or more other resource managers coupled to the ~~one or more nodes~~node.

27. (Currently Amended) The ~~article of manufacture~~computer program product of claim 26, wherein the resource manager is a grid resource manager, and the one or more other resource managers comprise one or more cluster resource managers.

28. (Currently Amended) The ~~article of manufacture~~computer program product of claim 20, wherein the heterogeneous computing environment comprises a grid computing environment and said resource manager comprises a grid resource manager.